FLINT HILLS resources

501 Brunner Street
Peru, Illinois

Quarterly Storm Water Sample Collection and Visual Observation

Date and Time of the Qualifying Event	2/20/14 7:00 AM
Nature of the Qualifying Event (Rain/Snow Melt)	Rain
Magnitude of the Qualifying Event (inches)	0.77 in
Date and Time of Sampling	2/20/14 1:00 PM
Sample Location	Outfall #2
Sample Collector's Name and Title	Dan Buck - Shift. Sup.

Sample Observer's Name and Title *(must be different from sample collector)*	Adam Chapman - Environmental Technician
Time of Sample Observation	2:38 PM
Color	Yellow Tint
Odor	None
pH	N/A
Clarity	Mostly Clear
Floating Solids	None
Settled Solids	Minute Amount
Suspended Solids	Small Particles
Foam	None
Oil Sheen	None
Other Obvious Indicators of Pollution	None

Signature/Title of Sample Collector — Date: 3/7/14

Signature/Title of Sample Observer — Date: 2/25/14

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501 Brunner Street
Peru, Illinois

Quarterly Storm Water Sample Collection and Visual Observation

Date and Time of the Qualifying Event	2/20/14 7:00 AM
Nature of the Qualifying Event (Rain/Snow Melt)	Rain
Magnitude of the Qualifying Event (inches)	0.77 in
Date and Time of Sampling	2/20/14 12:50 PM
Sample Location	Outfall #1
Sample Collector's Name and Title	Dan Buck - Sh. 4 Sup.

Sample Observer's Name and Title *(must be different from sample collector)*	Adam Chapman Environmental Tech.
Time of Sample Observation	2:31 PM
Color	Yellow Tint
Odor	None
pH	N/A
Clarity	Mostly Clear
Floating Solids	None
Settled Solids	Minute Amount
Suspended Solids	Small Particles
Foam	None
Oil Sheen	None
Other Obvious Indicators of Pollution	None

Signature/Title of Sample Collector — Date: 3/7/14

Signature/Title of Sample Observer — Date: 2/25/14

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501 Brunner Street
Peru, Illinois

Quarterly Storm Water Sample Collection and Visual Observation

Date and Time of the Qualifying Event	4-3-14 @ 09:00
Nature of the Qualifying Event (~~Rain~~/Snow Melt)	Rain
Magnitude of the Qualifying Event (inches)	1.4 inches
Date and Time of Sampling	4-3-14 @ 09:24
Sample Location	Sample Point #1 (Tank-Farm)
Sample Collector's Name and Title	Rich Plock/Production Facilitator

Sample Observer's Name and Title *(must be different from sample collector)*	Adam Chapman / Environmental Technician
Time of Sample Observation	11:58 AM
Color	Mostly Clear
Odor	None
pH	8.95
Clarity	Mostly Cloudy
Floating Solids	None
Settled Solids	Very Few Dark Particles
Suspended Solids	Mostly Fine Particles
Foam	None
Oil Sheen	None
Other Obvious Indicators of Pollution	No

Rich Plock / Production Facilitator
Signature/Title of Sample Collector

4-3-2014
Date

Adam Chapman / Environmental Technician
Signature/Title of Sample Observer

4/3/14
Date:

FLINT HILLS resources®

501 Brunner Street
Peru, Illinois

Quarterly Storm Water Sample Collection and Visual Observation

Date and Time of the Qualifying Event	4-3-14 @ 9:00
Nature of the Qualifying Event (~~Rain~~/Snow Melt)	Rain
Magnitude of the Qualifying Event (inches)	1.4 inches
Date and Time of Sampling	4-3-14 @ 09:12
Sample Location	sample point # 2 "Duck-Pond"
Sample Collector's Name and Title	Rich Ploch / Production Facilitator

Sample Observer's Name and Title *(must be different from sample collector)*	Adam Chapman
Time of Sample Observation	11:46 AM
Color	Mostly Clear
Odor	None
pH	8.99
Clarity	Mostly Cloudy
Floating Solids	Some Fine Particles
Settled Solids	Few Dark Particles
Suspended Solids	Mostly Fine Particles
Foam	None
Oil Sheen	None
Other Obvious Indicators of Pollution	NO

Rich Ploch / Production Facilitator
Signature/Title of Sample Collector

4-3-14
Date

Adam Chapman / Environmental Technician
Signature/Title of Sample Observer

4/3/14
Date:

FLINT HILLS resources

PERU FACILITY
ENVIRONMENTAL DEPARTMENT

ANNUAL STORM WATER MANAGEMENT INSPECTION CHECKLIST

Date 6/10/14 Weather Conditions Overcast – Rain

Inspector Name/Title: Adam Chapman – Environmental Technician

Y/N	DESCRIPTION: COMMENTS REQUIRED IF ANSWERED YES
Y	Trash, litter, debris in the vicinity of stormwater collection system components
Y	Significant outdoor accumulations of beads on site
Y	Spillage at compactors
N	Improper outdoor storage of materials, equipment, and chemicals
Y	Storage boxes and bags -- torn, damaged, exposed to run-off, spillage
N	Tanks -- corrosion, damage, inadequate support, containment issues, leakage, etc.
N	Drums -- corrosion, damage, uncovered, containment issues, spillage, etc.
N	Secondary containment structures -- structural integrity, presence of oil or residue filled with water, valves open?
N	Piping and valves -- corrosion, leakage, supports, etc.
N	Pumps and hose connections – structurally sound? Leakage?
N	Sludge accumulations near wastewater plant

ANNUAL STORM WATER MANAGEMENT INSPECTION CHECKLIST

Y Oil staining on ground (outdoors)

N Other residue, discolored surfaces (outdoors)

Y Erosion problems

Y Accumulations of debris/sediment at catch basins/inlets, stop gates, skimmer pond

N Any non-stormwater discharge to Illinois River

Y Spill response equipment and supplies at appropriate locations

N Any other issues of non-compliance observed during this inspection

Signature Adam Clapp

Inspector's Supplemental Comments:

Flint Hills Resources Chemical Intermediates, LLC
Facility NPDES Permit ID ILR000057
Attachment 4: Summary of Spill Events During the Reporting Period (May 1, 2013 through April 30, 2014)

Incident Date	Time of Spill (24-Hr Format)	Duration of Spill (minutes)	Estimated Release Quantity	Material(s) Involved	Location of Spill	Description of Spill	Cause of Spill	Spilled Surface	Mitigation and Prevention
5/2/2013	12:22	Unknown	Unknown	Oil	West of Northeast Fire Water Diesel Storage Area	An oil sheen was observed discharging from Stop Gate 3. Based on FHR's observations, the sheen amounted to a few droplets that were 6 to 12 inches across. After an inspection of the surrounding area and equipment, no spills or leaks were observed that would have indicated a source of the release. The source of the oil sheen was eventually tracked to a large oil stain on an asphalt road, located on the west side of the Northeast Fire Water Diesel Storage Area. FHR employees reported seeing the staining after flood waters receded from the facility. Therefore, FHR believes the oil stain was deposited on the road as a result of the flood event. To date, FHR has not determined whether the staining was the result of an off-site or on-site source.	An oil stain was deposited on the road as a result of the flood event. To date, FHR has not determined whether the staining was the result of an off-site or on-site source.	Asphalt	Updates to the facility's Flood Contingency Plan (Plan) are have been drafted to include an inspection of the entire facility for oil deposited from receding flood waters. If any oil residue is observed on soil or pavement, a contractor will be immediately notified for cleanup. An annual preventative maintenance ("PM") to clean the Facility's storm water basins has been uploaded into FHRCI's maintenance planner. The PM to clean storm water basins occurs every July.
5/24/2013	13:55	Unknown	2 gallons	Mop Water Containing Bleach	Storm Drain South of Maintenance Building	A bucket of mop water containing bleach was dumped directly to a storm water drain.	An FHRCI employee did not know that a discharge of mop water containing bleach into a storm drain is not acceptable.	The mop water containing bleach was dumped directly to a storm water drain.	The Stop Gate 3 was shut and all storm water existing in the storm sewer between the Maintenance Building and the storm water outfall was pumped to the FHCI's wastewater treatment plant. No mop water was discharged to the Illinois River. All FHRCI personnel received SWPPP refresher training in 2013.

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Incident Date	Time of Spill (24-Hr Format)	Duration of Spill (minutes)	Estimated Release Quantity	Material(s) Involved	Location of Spill	Description of Spill	Cause of Spill	Spilled Surface	Mitigation and Prevention
6/21/2013	11:00	5 minutes	200 gallons	Raw Wastewater/EPS beads	Parking lot area north of Building 4, concrete area south of Building 4.	Process wastewater from Building 4 was discharging from a spilt coupling going to FHRCI's wastewater treatment plant. The wastewater discharged to the asphalt parking lot and did not enter into any of the Facility's storm sewers.	An overhead wastewater transfer line from Bldg. 4 to the wastewater surge tank had a coupling rupture during pumping.	Asphalt	Operations stopped pumping wastewater to the wastewater treatment plant immediately after the release was discovered. Once the flow from the pipe slowed, maintenance personnel replaced the ruptured coupling. All the wastewater that discharged onto the asphalt was absorbed and did not impact storm water that discharges offsite.
7/3/2013	4:15	60 minutes	10 gallons	Cooling Tower water containing Sodium hypo chlorite, and sodium hydroxide	Cooling Tower	Cooling Tower water discharged to the skimmer pond located southeast of Building 4.	An incorrect valve position on the cooling water system caused the basin to over flow.	The cooling tower water ran across an asphalt parking lot into a concrete skimmer pond.	The entire contents of the skimming pond were pumped out and discharged to FHRCI's wastewater treatment plant. Therefore, the cooling tower water did not impact storm water that discharges offsite.
7/19/2013	9:40	Unknown	30 gallons	Raw Process Wastewater	Waste Containment Pit on south side of Technical Development Lab	Sump pump used to pump wastewater from the Technical Development Laboratory. Containment pit failed. Process wastewater from the pit overflowed onto the ground.	A sump pump malfunctioned.	Road pack and asphalt	Maintenance personnel replaced the faulty sump pump. A contractor used a vacuum truck to remove the wastewater from the road. No wastewater impacted storm water offsite.
7/24/2013	Unknown	August 1, 2007 to July 24, 2013	Unknown	Non Contact Industrial Wastewater	Southside of Quality Control Laboratory	Wastewater from the Quality Control Laboratory's polystyrene expander and molder discharged to FHRCI's storm water sewer. The wastewater discharged to the Illinois River through Stop Gate 1.	The expander and molder were installed by the facility's previous owner (pre-2007).	The wastewater was discharged directly to FHRCI's storm sewer.	Wastewater from the Quality Control Laboratory's polystyrene expander and molder was re-routed to FHRCI's wastewater treatment plant.
8/2/2013	13:40	5 minutes	1.5 gallons	Auto type anti-freeze	West of Building 4	A Contractor owned vacuum truck released anti-freeze onto the ground.	The vacuum truck engine overheated perhaps from excessive idling which caused the release.	Asphalt	The spill was absorbed before any antifreeze entered the Facility's storm sewer. There was no impact to storm water discharges offsite.
8/12/2013	11:10	1 minute	2 gallons	Raw Process Wastewater and Condensate	Outside QC Lab area	While molding on the molder/expander, the tote which collects waste water overflowed. The operator was in the process of opening the valve on the empty tote and closing the valve on the full tote when the sump pump kicked on and released stored waste water.	A waste water tote was overfilled.	Asphalt	The spilled wastewater was absorbed before it reached the Facility's storm sewer and the full tote was emptied. No wastewater impacted offsite storm water.

Flint Hills Resources Chemical Intermediates, LLC
Facility NPDES Permit ID ILR000057
Attachment 4: Summary of Spill Events During the Reporting Period (May 1, 2013 through April 30, 2014)

Incident Date	Time of Spill (24-Hr Format)	Duration of Spill (minutes)	Estimated Release Quantity	Material(s) Involved	Location of Spill	Description of Spill	Cause of Spill	Spilled Surface	Mitigation and Prevention
11/4/2013	6:45	1.5 minutes	500 gallons	Raw Process Wastewater	Wastewater Surge tank	A surge tank was found leaking in the northeast side of the tank approximately 8' from the tank top.	A hole the size of a quarter formed on the side of the surge tank due to corrosion caused by air and water.	Road pack	The stop gate located south of the wastewater treatment plant was closed to prevent the wastewater from impacting offsite storm water. A contractor cleaned up the spill, vacuumed out the pentane truck unloading area and storm sewer basin. Material was returned to containment to process back to the waste water treatment system. A patch was welded on the tank to repair the area. The average tank level has been lowered to allow for more headspace.
2/13/2014	10:00	60 minutes	75 gallons	Treated Process Wastewater	Waste Treatment Plant	The return pump line from the treated recirculation wastewater pump cracked/split and sprayed treated wastewater on a large snow pile.	The release of wastewater was caused by wet insulation that corroded the pipeline over a long period of time.	Road pack	The stop gate located south of the wastewater treatment plant was closed to prevent the wastewater from impacting offsite storm water. The snow and wastewater was shoveled into containment where the material was pumped back to wastewater treatment. The recirculation line was replaced with new piping on 2/14/2014. There was no impact to storm water.
4/25/2014	20:47	26 minutes	2,820 pounds	Styrene	South of Building 4 Emergency Containment Pit	The incident involved reactor R-17, which discharged its batch into the emergency containment area. Some of the discharged material breached the emergency containment area. , Hazardous Materials personnel were called into the facility to respond to the release. Storm water stop gates were closed to prevent material from leaving the site through the storm drains.	A reactor cooling system did not engage due to issues with the facility DCS, locking out the valve. This caused a temperature that activated the SIS which discharged the contents of the reactor into an emergency containment basin. Some of the material breached the containment.	Road pack and asphalt	Some of the discharged material from the release migrated to a nearby storm sewer drain that leads to the western wall of a storm water retention basin (“Skimming Pond”). The Skimming Pond consists of an underflow/overflow weir system that has an outfall to the Illinois River on its eastern wall. An FHR employee observed at the time that the volume of liquid in the Skimming Pond was below the overflow weir such that the Skimming Pond was not discharging to the outfall. The same employee closed the block gates on the Skimming Pond. In addition, that FHR employee and other FHR employees observed no flow of waste water from the storm sewer drain discharge (located above the Skimming Pond water line) into the Skimming Pond. FHR pumped storm water from the Skimming Pond to FHR’s waste water treatment plant (“WWTP”). An FHR contractor arrived to vacuum and rinse the storm sewer drain. The contractor power washed the storm sewer drain leading to the Skimming Pond. The rinse water was allowed to drain into the Skimming Pond, and the contractor

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Facility NPDES Permit ID ILR000057
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Incident Date	Time of Spill (24-Hr Format)	Duration of Spill (minutes)	Estimated Release Quantity	Material(s) Involved	Location of Spill	Description of Spill	Cause of Spill	Spilled Surface	Mitigation and Prevention
									vacuumed out the rinse water and any debris.. The material that was released to the asphalt was absorbed and the affected road pack was remediated. An extended wall was erected around the emergency containment area. In addition, emergency dump lines were extended to prevent splashing out of the containment area. There were no impacts to storm water that was discharged off-site.

Flint Hills Resources Chemical Intermediates, LLC
Facility NPDES Permit ID: ILR000057
Attachment 2: Annual Storm Water Inspection Checklist (Findings from Inspection on June 10, 2014)

Inspection Finding	Plan for Mitigation	Completion Date
An accumulation of polystyrene beads was found near the dust collector located on the north side of Building 4.	Currently, FHR has routine housekeeping rounds that are entered into FHRCI's Routine Duties Calendar. FHR employees perform housekeeping rounds four times each month. It has been communicated that the dust collector will be a part of the routine housekeeping rounds.	The polystyrene beads were cleaned up on June 25, 2014.
An accumulation of polystyrene dust and beads was found under the Building 4 compactor.	FHR will contact a third party solid waste hauler to remove the compactor. Once the compactor has been removed, FHRCI will clean up the beads and dust. Storm water inspections will be done quarterly. The inspection includes all compactors at the facility.	The polystyrene beads will be cleaned up by July 31, 2014. Quarterly Storm Water Inspections will be started during the fourth quarter of 2014 and will be added to FHRCI's Routine Duties Calendar.
A 10 cubic yard roll box was over filled with construction debris.	A third party solid waste hauler was contacted to haul the waste to an appropriate disposal facility.	The 10 cubic yard roll off box was emptied on June 24, 2014
Sediment was observed accumulating in three storm water basins due to erosion.	An extension will be installed on all three storm water basins to raise the top of the basin above grade. This will stop the intrusion of sediment carried by storm water runoff. A contractor will be hired to use a vacuum truck to remove sediment that has deposited in the storm water basins.	Storm water basin extensions will be installed by August 31, 2014 The three storm water basins will be cleaned out by August 31, 2014.

Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges Associated with Industrial Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report. Place a NA in sections that do not apply to your operation.

Report Period: From: May 1, 2013 To: April 30, 2014

Permit No. ILR00 0057

OWNER/OPERATOR INFORMATION: (As it appears on the current permit)

Name: Flint Hills Resources, LP

Mailing Address: 501 Brunner Street

City: Peru State: IL Zip: 61354 Telephone: 815-224-1525

Contact Person: Michael Schmidt (Person responsible for Annual Report)

FACILITY/SITE INFORMATION: (As it appears on the current permit)

Facility Name: Flint Hills Resources, LP Primary SIC Code: 2821

Facility Location: 501 Brunner Street

City: Peru IL Zip: 61354 County: LaSalle

RECEIVING WATER INFORMATION:

☐ Storm Sewer Owner of Storm Sewer Systems:

☒ Waters of the State Closest Receiving Waters: Illinois River

ADDITIONAL INFORMATION:

Has this facility received an NPDES Permit under a different owner/operator name in the past? If so, list last name permit was issued to: Huntsman Expandable Polymers (Please see cover letter for additional owner/operator information)

Attach information on any activity that has occurred at this facility during the report period that may have resulted in pollutants discharged to storm water runoff (e.g. Spills).

Attach information on any changes to the facility or the activity occurring at the facility that resulted in significant changes to the SWPPP.

Attach information concerning quarterly visual observations of discharges as found in Section E, Item 8 of the Permit.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Owner Signature: 6-27-14 Date:

Brian Marcinkus Printed Name: Plant Manager Title:

EMAIL COMPLETED FORM TO: epa.indannualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532 2585
WPC 691 Rev 6/10